Notice of Allowability	Application No.	Applicant(s)
	09/838,752	CHEN ET AL.
	Examiner	Art Unit
	Lourdes C. Cruz	2827
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
 This communication is responsive to <u>An amendment filed 11/08-02</u>. The allowed claim(s) is/are <u>9-18</u>. The drawings filed on are accepted by the Examiner. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). All b) ☐ Some* c) ☐ None of the: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No Copies of the certified copies of the priority documents have been received in this national stage application from the 		
International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). (a) The translation of the foreign language provisional application has been received. 6. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE		
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 8. ☐ CORRECTED DRAWINGS must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No (b) ☐ including changes required by the proposed drawing correction filed, which has been approved by the Examiner. (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. 4. 		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet.		
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449), Paper No Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4□ Interview Summa 6□ Examiner's Amer	al Patent Application (PTO-152) ary (PTO-413), Paper No ndment/Comment ment of Reasons for Allowance

DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: There is prior art regarding semiconductor devices comprising beveled edges. See, for example, that Raiser et al. (US 6049124) discloses a chip with beveled edges 512 having an active surface 316 and a corresponding back surface, wherein the active surface has beveled edges.

Also, Farnworth (US 6252302) discloses beveled edges. However, Farnworth's chip 76 (referred to as die/dice in the patent) may be illustrated as having an active surface with a beveled edge (Figs. 4&6), but this feature is not referred to anywhere in the written description. Therefore, the examiner was unable to rely upon this reference since she would be relying upon assumptions, and she would be unable to make an appropriate obviousness statement based on assumptions, and not based on a disclosure itself.

As described in the independent claims 9 and 14, the invention teaches a package or semiconductor device that comprises a die pad, a plurality of leads, and a chip including an active surface with beveled edges, and a back surface attached to the die pad via an adhesive material. The adhesive material covers the whole back surface of the chip and the side surfaces of the chip that connect its back surface to its active surface. As disclosed on, for example, page 6:lines 8-10 of the specification the

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provision of beveled edges favorably prevents coverage of the active surface of the chip by an overflowed adhesive material. In addition to the above, claim 14 recites the stack of a plurality of chips on one another on the die pad.

The above features in combination with all other specific structural limitations in the claims are neither obvious over nor anticipated by the prior art of record, which fails to, either alone or in combination, anticipate the device as claimed. Hence the Notice of Allowability found herein.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elle Cruz whose telephone number is 703-306-5691. The examiner can normally be reached on M-F 10-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

> Lourdes C. Cruz Examiner Art Unit 2827

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Elle Cruz July 12, 2003

> DAVID L. TALBO SUPERVISORY PATENT COMMENTS TECHNOLOGY CENTER PROPERTY